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## ABSTRACT

A method and apparatus are presented for messaging within a plurality of nodes 100, wherein each node 100 includes a processor 208, a memory 210 connected with the processor 208, and a directional communication interface 204 connected with the processor 208. The nodes 100 are operative for receiving a message including an address code with a relative target address of an intended recipient node 106; for processing the address code to determine if the current node 100 is the intended recipient node 106; for modifying the message based on the direction from which the message was received and is to be transmitted; and for re-transmitting the message including a modified address code. The nodes 100 each repeat these actions to propagate a message along multiple paths until the message reaches a desired recipient, thereby providing path redundancy without the need for the use of unique node 100 identities or locations.